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Himanshu S. Amin			HAQ, NAEEM U	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/838,970	BLANKENSHIP ET AL.			
Office Action Summary	Examiner	Art Unit			
	Naeem Haq	3625			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address -			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 11/2	<u>9/2006</u> .				
2a)⊠ This action is FINAL. 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-57</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-57</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		atent Application (PTO-152)			
Paper No(s)/Mail Date U.S. Patent and Trademark Office	6)				
	tion Summary Pa	rt of Paper No./Mail Date 20060129			

DETAILED ACTION

Response to Amendment

This action is in response to the Applicants' amendment filed November 29, 2005. Claims 1-57 are pending and will be considered for examination.

Claim Objections

Claims 55-57 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. These claims are directed to computer-readable mediums having computer-executable instructions for performing the steps of claims 45, 48, and 50 respectively. These claims are improper because they fail the "infringement test" (see MPEP 608.01(n), Section III). Applying the Infringement test, what is needed to infringe claims 55-57 is, for example a CD-ROM having computer executable code that if and when executed would cause a computer to do the steps recited in claims 45, 48, and 50. However, such a CD-ROM would not infringe the method steps of claims 45, 48, and 50 since the CD-ROM itself never performs any of the active steps required by the method of claims 45, 48, and 50. In other words, mere possession of such a CD-ROM would infringe claims 55-57, but would not infringe claims 45, 48, and 50. As such claims 55-57 are improper dependent claims.

Claim Rejections - 35 USC § 101

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 37-44 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Referring to claim 38: This claim is directed to a "system" for managing welding consumables. The system has three parts: (1) a consumable monitor "component", (2) a customer "component", and (3) a supplier "component." The Applicants' specification defines a "component" as follows:

"A 'component' is a computer-related entity, either hardware, a combination of hardware and software, software, or software in execution. For example, a component may be, but is not limited being, a process running on a processor, a processor, an object, an executable, a thread of execution, a program and a computer. By way of illustration, both an application running on a server and the server can be components." (see page 5, lines 15-20).

Thus the Applicants' specification teaches that a "component" can be construed as a program (i.e. software). Therefore, the "system" of claim 38 comprises three programs. The Examiner notes that a program or software is nothing more than a series of instructions to perform an action (i.e. an algorithm) (see Microsoft Press Dictionary).

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Art Unit: 3625

Hence, the Applicants' "system" can be construed as comprising three algorithms.

None of these "components" recite anything physical to constitute a "system" (i.e. an apparatus).

Referring to claims 37, 43, and 44: Claims 37, 43, and 44 are rejected under the same rationale as set forth above in claim 38.

Referring to claims 39-42: Claims 39-42 are dependent on claim 38. However, these claims fails to correct the deficiency of claim 38 and are rejected under the same rationale as set forth above in claim 38.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 37-44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 38: Claim 38 is directed to a "system". However, as noted above in the 101 analysis, Applicants' invention can be construed as comprising three algorithms. It is unclear to the Examiner how three algorithms can constitute a "system" (i.e. apparatus) since an algorithm has no physical structure.

Referring to claims 37, 43, and 44: Claims 37, 43, and 44 are rejected under the same rationale as set forth above in claim 38.

Referring to claims 39-42: Claims 39-42 are dependent on claim 38. However, these claims fails to correct the deficiency of claim 38 and are rejected under the same rationale as set forth above in claim 38.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-9, 12, 15, 16, 21-23, 25-27, 32, 33, 35, 37, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Dialog File 148 "Retrospective" (hereafter referred to as Dialog).

Referring to claim 1: Bennett discloses a system for managing welding consumables, comprising:

- a welder comprising a consumable monitor that transmits welding consumable information (<u>Abstract</u>: "The machine may be used to directly measure and compare costs of any welding processes by connecting it to various sensors which monitor the weld as it is produced."; <u>page 342</u>, <u>lines 22-26</u>:
 "... certain parameters such as welding current, arc voltage and wire usage rate are monitored by appropriate transducers and the signals relayed to an approved instrument box"; <u>page 343</u>, <u>lines 40-48</u>; <u>page 342</u>, <u>lines 25 and 28</u>; "... the signals relayed to an approved instrument box.");
- a remote system that interfaces to the welder, the remote system facilities
 management of welding consumables for the welder based at least in part

upon information received from the consumable monitor (page 341, line 38 – page 342, line 1; page 342, lines 41-47; page 343, lines 36-46).

Bennett does not expressly disclose that the remote system interfaces to the welder *via* a computer network. However, Bennett discloses that a transducer relays signals to an instrument box (page 342, lines 22-26). Furthermore, Dialog discloses remotely monitoring the quality of a weld via the Internet (page 1). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Dialog into the invention of Bennett. One of ordinary skill in the art would have been motivated to do so in order to remotely monitor the status of a weld as taught by Dialog.

Referring to claim 2: Bennett and Dialog teach or suggest all of the limitations of claim 1 as noted above. Furthermore, Bennett discloses that the remote system facilitates ordering and/or purchasing of a consumable based at least in part upon information received from the consumable monitor (page 341, line 38 – page 342, line 1). Bennett discloses that one of the benefits of his invention is to "... enable the welding engineer to present a clear case to purchasing department with regard to the purchase of say helium/argon mixtures..."

Referring to claim 3: The cited prior art teaches or suggests all of the limitations of claim 2 as noted above. Furthermore, Bennett discloses that the consumable is a wire and a gas (page 342, lines 22-26; page 343, lines 15-46).

Referring to claims 4, 5, and 9: The cited prior art teaches or suggests all of the limitations of claims 3 and 1 as noted above. The cited prior art does not teach the

particular use of the consumables as noted in claims 4 and 5, or that the welder is leased to the customer as noted in claim 9. However, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In the present case, the cited prior art is capable of performing the intended use of the consumables and lease agreement because the cited prior art has the same structure as the claim invention and because the prior art is directed to the same field of invention (i.e., monitoring a welder having consumables). Thus the limitations of claims 4, 5, and 9 do not patentably distinguish the structure of the claimed invention from the prior art.

Referring to claims 6-8: The cited prior art teaches or suggests all of the limitations of claim 2 as noted above. The cited prior art does not teach that the ordering and/or purchasing of the consumable is based on a customer ordering model, a vendor managed replenishment contract, or the nature of the ownership of the consumable. However, the Examiner notes that these limitations are not functionally involved in the elements of the recited system. Therefore these limitations are deemed to be nonfunctional descriptive material. The elements of the system would be the same regardless of any contract or ownership of the consumable. The differences

between the Applicants' invention and the prior art are merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994)* also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have any contract or ownership model in the cited prior art because such information does not functionally or structurally relate to the elements of the claimed system and because the subjective interpretation of such information does not patentably distinguish the claimed invention.

Referring to claims 12 and 15: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. Furthermore, Dialog teaches that the network employs TCP/IP (page 1) and the Internet (page 1). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Dialog into the invention of Bennett. One of ordinary skill in the art would have been motivated to do so in order to remotely monitor the status of a weld via the Internet as taught by Dialog.

Referring to claim 16: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. Furthermore, Bennett teaches an arc quality monitor providing information regarding the weld quality to the remote system (page 342, lines 22-26).

Referring to claims 21-23, 25-27, 32, 33, 35 and 37: Claims 21-23, 25-27, 32, 33, 35, and 37 are rejected under the same rationale as set forth above in claims 1, 3-5, 12, 15, 16.

Referring to claim 54: Claim 54 is rejected under the same rationale as set forth above in claim 1.

Claims 10, 11, 17-19, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Dialog File 148 "Retrospective" (hereafter referred to as Dialog) and further in view of Tarr et al. (US 5,184,179) (hereafter referred to as Tarr).

Referring to claims 10 and 11: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. The cited prior art does not teach that the remote system enforces an agreement or contract or that the customer is invoiced by the system for consumables based on information received from the monitor. However, Tarr discloses a remote monitoring system (Figure 3, items "60" and "40") that that invoices a customer (Figure 1, item "36"; Figure 3, item "54") and provides service contract information (col. 3, lines 12-49). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Tarr into the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to allow appropriate personnel to provide the appropriate service requirement and maintain accurate billing records as taught by Tarr (col. 3, lines 40-47).

Referring to claim 17: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. The cited prior art does not teach that a customer is invoiced by the system for consumables based on weld quality information received from the monitor. However, Tarr discloses a remote monitoring system (Figure 3, items "60" and "40") that that invoices a customer (Figure 1, item "36"; Figure 3, item "54"). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Tarr into the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to maintain accurate billing records as taught by Tarr (col. 3, lines 40-47). Tarr does not teach that the invoice is based on weld quality. However, the Examiner notes that this limitation is not functionally or structurally involved in the elements of the recited system. Therefore this limitation is deemed to be nonfunctional descriptive material. The elements of the recited system would be the same regardless of what information the invoice was based on. The difference between the content of the Applicants' invoice and the prior art is merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack, 703 F.2d* 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994) also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to base the invoice of the prior art on any information because such information does not functionally or structurally relate to the elements of the claimed system and because the

subjective interpretation of information does not patentably distinguish the claimed invention.

Referring to claim 18: The cited prior art teaches or suggests all of the limitations of claim 17 as noted above. Furthermore, Bennett discloses that the remote system tracks patterns of usage of welding consumables (page 342, lines 22-26; "...wire usage rate are monitored...")

Referring to claim 19: The cited prior art teaches or suggests all of the limitations of claim 17 as noted above. The cited prior art does not teach the particular use of the remote system as noted in claim 19. However, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In the present case, the cited prior art is capable of performing the intended use because the cited prior art has the same structure as the claim invention and because the prior art is directed to the same field of invention (i.e., monitoring a welder having consumables). Thus the limitation of claim 19 does not patentably distinguish the structure of the claimed invention from the prior art.

Referring to claim 36: Claim 36 is rejected under the same rationale as set forth above in claim 17.

Claims 13, 14, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Dialog File 148 "Retrospective" (hereafter referred to as Dialog) and further in view of Official Notice.

Referring to claim 13: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. The cited prior art does not teach that information is exchanged between the welder and the remote system using at least one of HTML, SHTML, VB Script, JAVA, CGI Script, dynamic HTML, ASP, ActiveX, XML, PDF, EDI, and WML format. However, Official Notice is taken that it is old and well known in the art to use HTML format to exchange information. Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate HTML into the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to present data in a user-friendly format.

Referring to claim 14: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. The cited prior art does not teach a LAN connection.

However, Official Notice is taken that it is old and well known in the art to use a LAN connection to connect two or more devices. Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate a LAN connection in the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to allow two or more remote devices to communicate via a common network.

Referring to claim 34: Claim 34 is rejected under the same rationale as set forth above in claim 13.

Claims 20 and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Dialog File 148 "Retrospective" (hereafter referred to as Dialog) and further in view of Sekizawa (US 6,681,349 B2).

Referring to claim 20: The cited prior art teaches or suggests all of the limitations of claim 1 as noted above. The cited prior art does not teach that the remote system performs resource or forecast planning. However, Sekizawa discloses a remote monitoring system that performs resource and forecast planning (col. 46, lines 15-40). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Sekizawa into the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to set up a yearly plan of manufacturing for the consumables as taught by Sekizawa (col. 46, lines 35-40).

Referring to claims 28-31: Claims 28-31 are rejected under the same rationale as set forth above in claim 20.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Dialog File 148 "Retrospective" (hereafter referred to as Dialog) and further in view of Manchala et al. (US 6,405,178 B1) (hereafter referred to as Manchala).

Referring to claim 24: The cited prior art teaches or suggests all of the limitations of claim 22 as noted above. The cited prior art does not teach initiating an order based at least in part upon information received from the consumable monitor. However, Manchala discloses this limitation (col. 2, lines 31-53). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Manchala into the invention of Bennett. One of ordinary skill in the art would have been motivated to do so in order to take into account the changes in price of the consumable as taught by Manchala (col. 1, lines 16-20; col. 3, lines 15-25; col. 4, lines 47-59).

Claim 38 and 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett).

Referring to claim 38: Bennett discloses a system for managing welding consumables, comprising:

- a consumable monitor that monitors consumable usage and/or consumable status of a welder (<u>Abstract</u>: "The machine may be used to directly measure and compare costs of any welding processes by connecting it to various sensors which monitor the weld as it is produced."; <u>page 342</u>, <u>lines 22-26</u>: "...certain parameters such as welding current, arc voltage and wire usage rate are monitored by appropriate transducers and the signals relayed to an approved instrument box"; <u>page 343</u>, lines 40-46);
- a component to that interfaces the consumable monitor facilitate welding
 resource management based at least in part upon information regarding

consumable usage received from the consumable monitor component (page 341, line 32 – page 342, line 1: "...a serious study of all welding cost aspects is essential to obtain bottom line costs for the finished weld...This will enable the welding engineer to present a clear case to purchasing department with regard to the purchase of say helium/argon mixtures..."; page 342, lines 41-47: "The second phase was the construction of suitable hardware and software so that the same machine could be used to monitor the weld process semi-automatically and so produce costing information."; page 343, lines 36-46);

 a component that receives information and facilitates purchasing of welding consumables (page 341, line 38 – page 342, line 1).

Bennett does not disclose that the second and third components are "customer" and "supplier" components respectively. However, the Examiner notes that these limitations are not functionally involved in the elements of the recited system. Therefore these limitations are deemed to be nonfunctional descriptive material. The elements of the recited system would be the same regardless of what names were given to the components. The difference between the Applicants' invention and the prior art are merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994)* also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to give the components in Bennett's system any name because such information does not functionally or structurally relate to the elements of the claimed system and because the

subjective interpretation of information does not patentably distinguish the claimed invention.

Referring to claim 40: The cited prior art teaches or suggests all of the limitations of claim 38 as noted above. Furthermore, Bennett discloses that the consumable is a wire and a gas (page 342, lines 22-26; page 343, lines 15-46).

Referring to claims 41 and 42: The cited prior art teaches or suggests all of the limitations of claim 40 as noted above. The cited prior art does not teach the particular use of the consumables as noted in claims 41 and 42. However, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and In re Otto, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In the present case, the cited prior art is capable of performing the intended use of the consumables because the cited prior art has the same structure as the claim invention and because the prior art is directed to the same field of invention (i.e., monitoring a welder having consumables). Thus the limitations of claims 41 and 42 do not patentably distinguish the structure of the claimed invention from the prior art.

Claims 39, 43, 45, 46, 48-53, and 55-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and

selling" (hereafter referred to as Bennett) in view of Manchala et al. (US 6,405,178 B1) (hereafter referred to as Manchala).

Referring to claim 39: Bennett teaches or suggests all of the limitations of claim 38 as noted above. Bennett does not disclose at least one of a production control component, a financial accounting component and a materials management component. However, Manchala discloses this limitation (col. 3, lines 26-30). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Manchala into the system of Bennett. One of ordinary skill in the art would have been motivated to do so in order to automate the material handling process as taught by Manchala.

Referring to claim 43: Bennett discloses a system for managing welding consumables comprising:

- a consumable monitor component that monitors consumable usage of a
 welder (<u>Abstract</u>: "The machine may be used to directly measure and compare
 costs of any welding processes by connecting it to various sensors which
 monitor the weld as it is produced."; <u>page 342</u>, <u>lines 22-26</u>: "... certain
 parameters such as welding current, arc voltage and wire usage rate are
 monitored by appropriate transducers and the signals relayed to an approved
 instrument box"; <u>page 343</u>, <u>lines 40-46</u>);
- an aggregation component for aggregating consumable usage that
 receives welding information from the consumable monitor (page 342, lines
 22-28; Figure 1);

a component that receives consumable information to facilitate
purchasing of welding consumables (page 341, line 38 – page 342, line 1;
 page 342, lines 41-47; page 343, lines 36-46).

Bennett does not disclose that the component that facilitates purchasing is a "supplier" component. However, the Examiner notes that this limitation is not functionally involved in the elements of the recited system. Therefore this limitation is deemed to be nonfunctional descriptive material. The elements of the recited system would be the same regardless of the name given to the component. The difference between the Applicants' invention and the prior art is merely subjective. Thus this nonfunctional descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see In re Gulack, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); In re Lowry, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994) also see MPEP 2106. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to give the components in Bennett's system any name because such information does not functionally or structurally relate to the elements of the claimed system and because the subjective interpretation of information does not patentably distinguish the claimed invention. Bennett does not disclose an inventory replenishment component that receives information from the aggregation component. However, Manchala teaches this limitation (col. 3, lines 26-30). Bennett does not disclose a procurement management component that determines whether to initiate reordering of the consumable based at least in part on inventory data and information associated with a vendor managed replenishment contract. However, Manchala

discloses this limitation (col.3 lines 31-53; col. 4, lines 50-62). Bennett does not disclose a reorder proposal component for generating a reorder proposal once the procurement management component has initiated reordering of the consumable. However, Manchala discloses this limitation (col. 4, lines 26-34). Bennett does not disclose an authorization component that receives authorization for the reorder proposal received from the reorder proposal component. However, Manchala discloses this limitation (col. 4, lines 22-25, lines 62-66). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Manchala into the system of Bennett. One of ordinary skill in the art would have been motivated to do so in order to take into account the changes in price of the consumable as taught by Manchala (col. 1, lines 16-20; col. 3, lines 15-25; col. 4, lines 47-59).

Referring to claim 45: Bennett discloses a method for managing welding consumables comprising: receiving information from a consumables monitor regarding consumable usage of a welder (Abstract: "The machine may be used to directly measure and compare costs of any welding processes by connecting it to various sensors which monitor the weld as it is produced."; page 342, lines 22-26: "... certain parameters such as welding current, arc voltage and wire usage rate are monitored by appropriate transducers and the signals relayed to an approved instrument box"; page 343, lines 40-46). Bennett does not disclose that the information is received from a computer network. However, Manchala discloses this limitation (col. 2, lines 41-44). Bennett does not disclose determining whether supply of a welding consumable has fallen below ordering threshold. However, Manchala discloses this limitation (col. 3, lines 31-36; col. 4, lines 16-22). Bennett does

not disclose ordering the welding consumable based at least in part upon the information received regarding the consumable usage. However, Manchala discloses ordering a consumable for a device (col. 2, lines 31-53). Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate the teachings of Manchala into the invention of Bennett. One of ordinary skill in the art would have been motivated to do so in order to take into account the changes in price of the consumable as taught by Manchala (col. 1, lines 16-20; col. 3, lines 15-25; col. 4, lines 47-59).

Referring to claim 46: Bennett further discloses aggregating information regarding the consumable usage (page 342, lines 22-28).

Referring to claims 48-53: Claims 48-53 are rejected under the same rationale as set forth above in claims 43, 45, and 46.

Referring to claim 55: Bennett discloses a computer-readable medium having computer-executable instructions for executing at least a portion of the method of claim 45 (page 342, line 41 – page 345).

Referring to claims 56 and 57: Claims 56 and 57 are rejected under the same rationale as set forth above in claim 55.

Claim 44 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over B.J. Bennett "Using a microcomputer is costing and selling" (hereafter referred to as Bennett) in view of Manchala et al. (US 6,405,178 B1) (hereafter referred to as Manchala) in view of Official Notice.

Referring to claim 44: The cited prior art teaches or suggests all of the limitations of claim 43 as noted above. The cited prior art does not teach that the reorder is transmitted via EDI or XML. However, Official Notice is taken that it is old and well known in the art to use EDI to transmit and order. Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to incorporate this feature into the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to use a well-known communication system for placing an order.

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Referring to claim 47: The cited prior art teaches or suggests all of the limitations of claim 45 as noted above. The cited prior art does not teach aggregating information regarding the consumable ordering. However, Official Notice is taken that it is old and well known in the art to aggregate orders. Therefore it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to aggregate the orders in the invention of the cited prior art. One of ordinary skill in the art would have been motivated to do so in order to negotiate a better price for the consumables through bulk ordering.

Response to Arguments

The following is in response to the arguments and/or amendments filed on November 29, 2005.

Applicants' arguments and/or amendments with respect to the objection to claims 55-57 have been fully considered but they are not persuasive. As noted above and in

the previous Office Action, claims 55-57 are objected to because they are improper dependent claims. These claims are improper because they fail the "infringement test" (see MPEP 608.01(n), Section III). Applicant's arguments and amendments do not correct the deficiency of the dependent claims. For this reason, the Examiner maintains the objection to the claims 55-57.

Applicants' arguments and/or amendments with respect to the rejection of claims 37-44 under 35 U.S.C 101 and 35 U.S.C. 112, second paragraph have been considered but they are not persuasive. The Applicants have argued that software code alone qualifies as an invention eligible for patenting and have cited "Eolas Techs., Inc v. Microsoft" (hereafter referred to as "Eolas") as support for this position. The Examiner disagrees with this interpretation of Eolas. The portion of Eolas cited by the Applicants was in reference to "A computer program product for use in a system..." (i.e. article of manufacture). The Federal Circuit held that software code alone qualifies as invention under processes (i.e. method claim) and under an article of manufacture claim when embodied on a computer readable medium (i.e. disk). In the present case, the Applicants have claimed a "system" (i.e. apparatus) comprising nothing more than computer code. Thus the fact pattern of Eolas does not fit the fact pattern of claims 37-44 because they are directed to a different statutory class of invention. For this reason, the Examiner maintains the art rejection.

Applicants' arguments and/or amendments with respect to the rejection of claims 45-53 under 35 U.S.C 101 have been fully considered and are persuasive. This rejection is withdrawn.

Applicants' arguments and/or amendments with respect to the rejection of claims 1-9, 12, 15, 16, 21-23, 25-27, 32, 33, 35, 37, and 54 under 35 U.S.C 103(a) have been considered but they are not persuasive. The Applicants have argued that "attaching" is not the same as "comprising" (see "Remarks" page 18), and that the Examiner has used hindsight reconstruction in combining Dialog with Bennett. The Examiner respectfully disagrees. The Applicants' specification does not disclose a definition for "comprising" which would exclude "attaching". Furthermore, one of ordinary skill in the art would recognize that the term "attaching" encompasses some sort of structural interrelationship because Bennett's device must be physically mated (i.e. attached) to a welder in order to operate properly. Finally, the Examiner did not rely on hindsight reconstruction in combining Dialog with Bennett. As noted in the Office Action, Bennett discloses a welder comprising a consumable monitor and a remote system that facilities management of welding consumables. The examiner relied on Dialog to teach the computer network limitation missing in Bennett. Bennett discloses an invention that relays signals to an instrument box (page 342, lines 25 and 26) and that can be interfaced to a large television screen (page 344). Thus Bennett's invention has the ability to transmit information to a remote system. Dialog teaches monitoring welding quality over a computer network (i.e. Internet) and provides the motivation for the combination. For this reason, the Examiner maintains the art rejection.

Applicants' arguments and/or amendments with respect to the rejection of claim 38 under 35 U.S.C 103(a) have been considered but they are not persuasive.

Applicants have argued that Bennett does not disclose the recited "structural"

relationships" of claim 38. The Examiner respectfully disagrees. As noted above in the rejection under 35 U.S.C. 101, software by itself does not constitute a "system" because software *per se* has no physical structure. Therefore claim 38 has no "structural interrelationships" recited in the claim language.

Applicants' arguments and/or amendments with respect to the rejection of claim 43 under 35 U.S.C 103(a) have been considered but they are not persuasive. Applicants have argued that Bennett does not disclose the recited "structural relationships" of claim 43. The Examiner respectfully disagrees. As noted above in the rejection under 35 U.S.C. 101, software by itself does not constitute a "system" because software per se has no physical structure. Therefore claim 43 has no "structural" interrelationships" recited in the claim language. The Applicants have also argued that incorporating the teachings of Manchala into Bennett would require "substantial reconstruction or redesign" of Bennett's invention. The Examiner respectfully disagrees. Upgrading the storage capabilities of a computer is well within the level of one of ordinary skill in the art. Furthermore, simply adding more RAM to a computer does not constitute "substantial reconstruction or redesign". The Applicants have also argued that combination of Bennett and Manchala is improper because Bennett and Manchala are non-analogous art. The Examiner respectfully disagrees. Both Bennett and Manchala are directed to the same problem area of measuring the consumption of a consumable for a device and replenishing the consumable. For these reasons, the Examiner maintains the art rejection.

Applicants' arguments and/or amendments with respect to the rejection of claims 10, 11, 13, 14, 17-20, 24, 28-31, 34, 36, 39-42, 44-53, and 55-57 under 35 U.S.C 103(a) have been considered but they are not persuasive. These claims are dependent claims of the independent claims that the Examiner has already addressed above. Therefore, the Examiner maintains the rejection of these claims under a similar rationale presented above for the independent claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naeem Haq whose telephone number is (571)-272-6758. The examiner can normally be reached on M-F 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wynn W. Coggins can be reached on (571)-272-7159. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Naeem Haq, Patent Examiner

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January 30, 2006